

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Tanya Harkins on March 10, 2010.

In the claims:

11. (Previously amended) A mutant lipase protein of *Candida antarctica* lipase B represented by comprising SEQ.ID. No 14, wherein the #219 leucine is replaced by a hydrophilic amino acid selected from a group consisting of glutamine, histidine, arginine, lysine, serine, threonine, aspartic acid and glutamic acid.

12. (Original) The mutant lipase protein as set forth in claim 11, wherein the #219 leucine is replaced by glutamine, and its amino acid sequence is represented by comprises SEQ. ID. No 11.

14. (Previously amended) A mutant lipase protein of *Candida antarctica* lipase B represented by comprising SEQ.ID. No 14, wherein the #278 leucine is replaced by proline, and its amino acid sequence is represented by comprises SEQ. ID. No 9.

15. (Previously amended) A mutant lipase protein of *Candida antarctica* lipase B represented by comprising SEQ.ID. No 14, wherein the #219 leucine is replaced by glutamine, and the #278 leucine is replaced by proline, and its amino acid sequence is represented by comprises SEQ. ID. No 10.

17. (Previously amended) The polynucleotide as set forth in claim 16, wherein the #219 leucine is replaced by serine, in the mutant lipase protein, and the nucleotide sequence is represented by comprises SEQ. ID. No 8.

19. (Previously amended) A polynucleotide, comprising a base sequence represented by comprising SEQ. ID. No 7 coding the mutant lipase protein of claim 15.

21. (Previously amended) The expression vector as set forth in claim 20, wherein the vector comprises a promoter gene, a secretion signal sequence gene, a polynucleotide, wherein the #219 leucine is replaced by serine in the mutant lipase protein, and its nucleotide sequence comprises of SEQ. ID. No. 8, a terminator gene and/or a surface display-mediating gene.

30. (Currently amended) A method for producing the mutant lipase protein of claim 11, comprising cultivating the a transformant in which an expression vector comprising a polynucleotide encoding a mutant lipase protein is introduced, said mutant lipase protein being represented by comprising SEQ ID. No. 14 where the #219 leucine is replaced by a hydrophilic amino acid selected from a group consisting of glutamine, histidine, arginine, lysine, serine, threonine, aspartic acid and glutamic acid.

31. (Currently amended) A method for producing the mutant lipase protein of claim 14, comprising cultivating the a transformant in which an expression vector comprising a polynucleotide encoding a mutant lipase protein represented by comprising SEQ ID. No. 9 is introduced.

32. (Currently amended) A method for producing the mutant lipase protein of claim 15 comprising cultivating the a transformant in which an expression vector comprising a polynucleotide encoding a mutant lipase protein represented by comprising SEQ ID. No. 10 is introduced.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michele K. Joike whose telephone number is (571)272-5915. The examiner can normally be reached on M-F, 10:00-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Low can be reached on (571)272-0951. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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